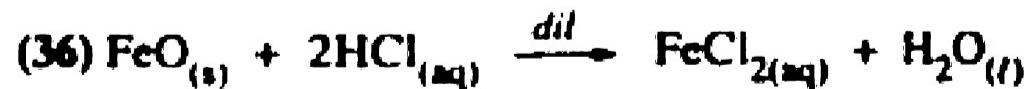
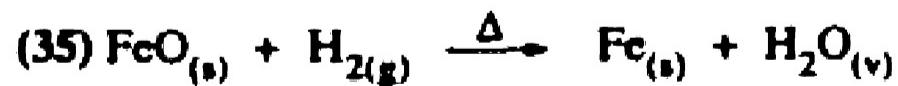
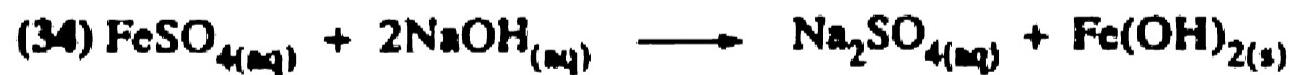
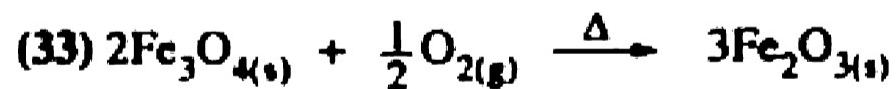
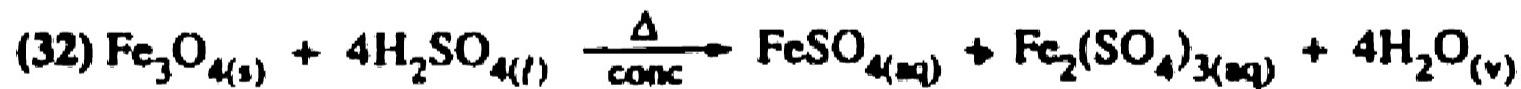
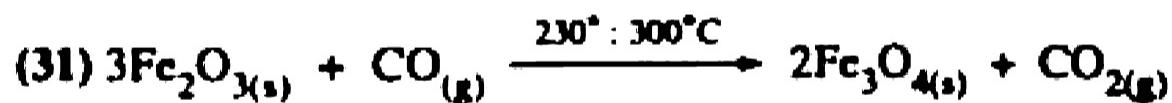
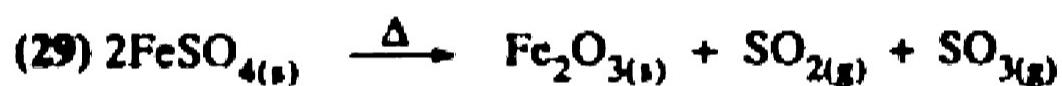
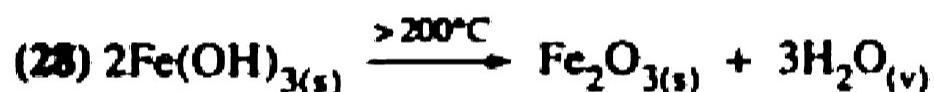
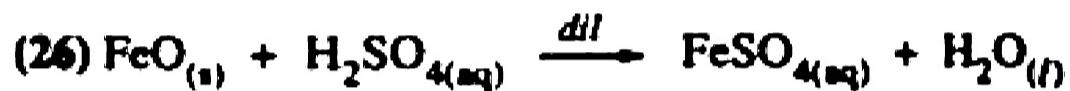
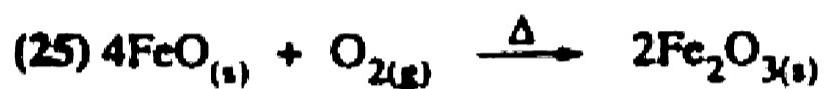
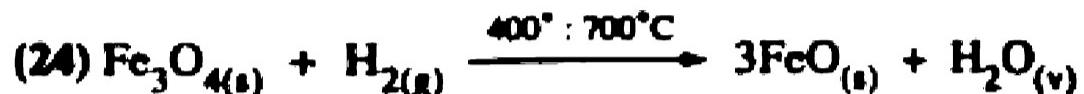
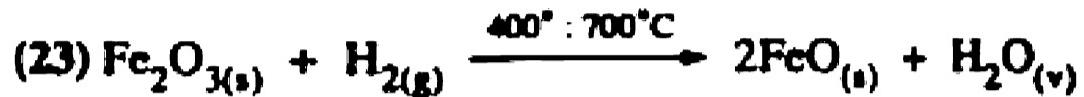
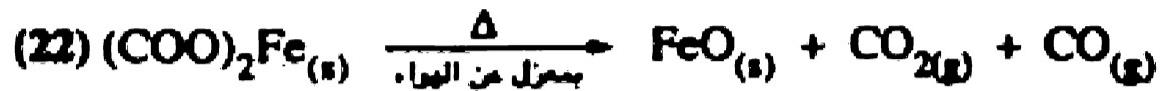
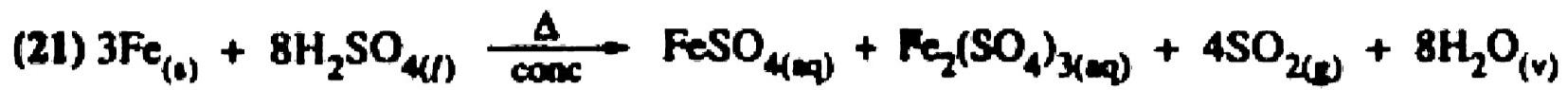
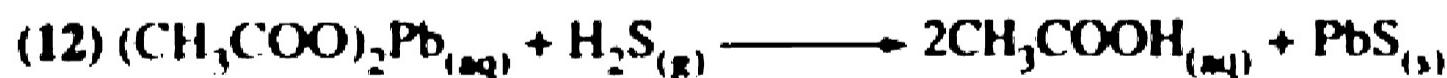
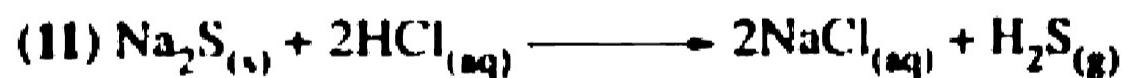
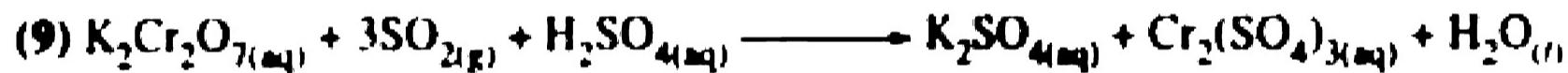
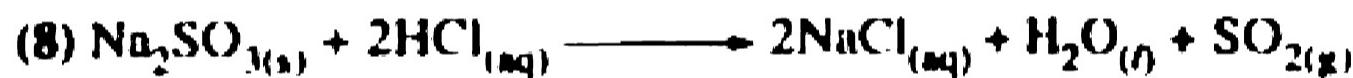
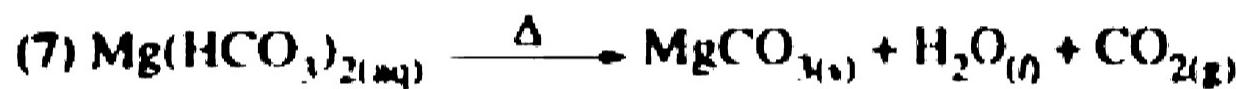
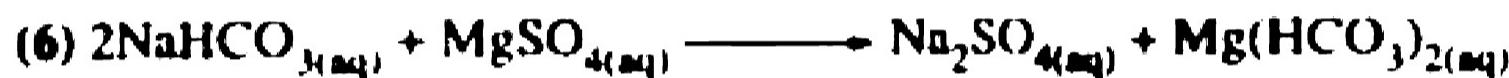
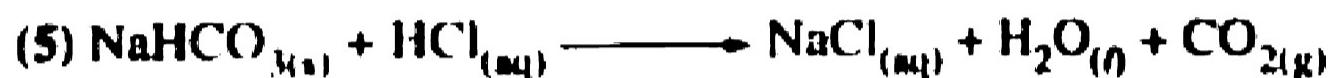
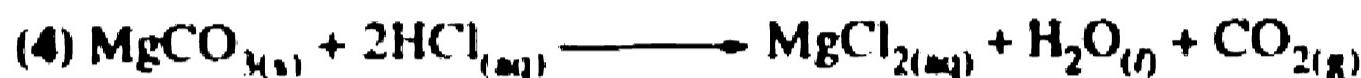
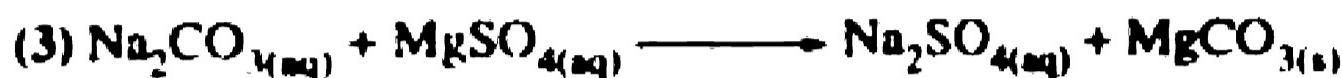
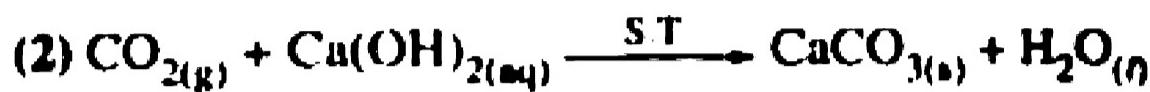


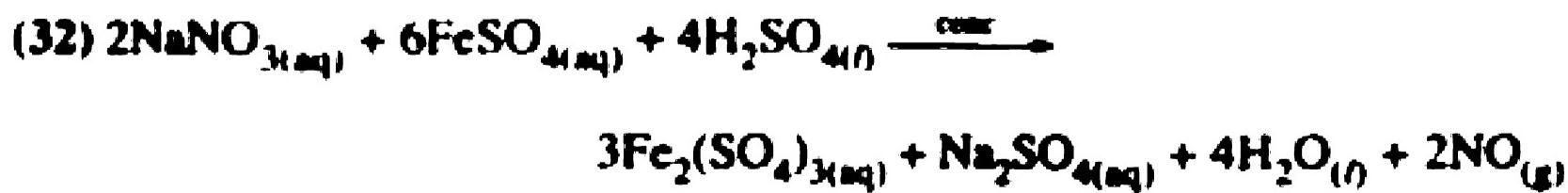
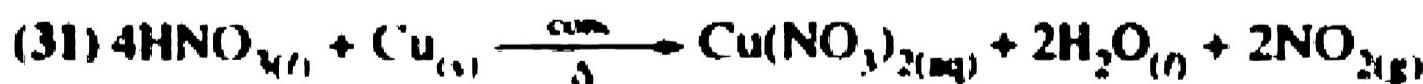
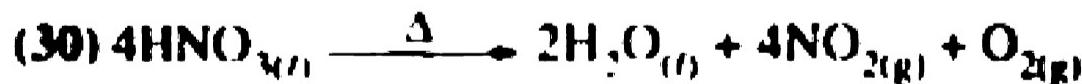
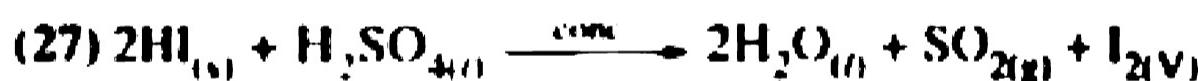
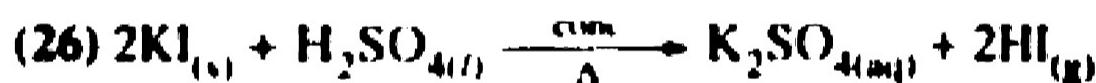
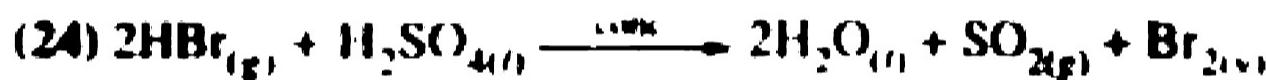
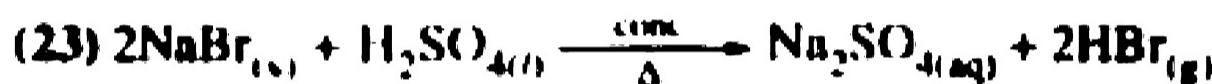
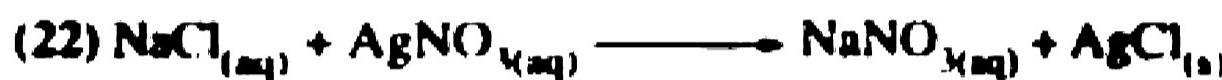
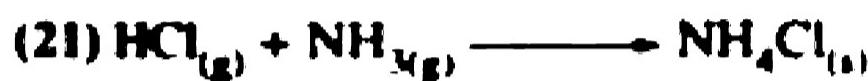
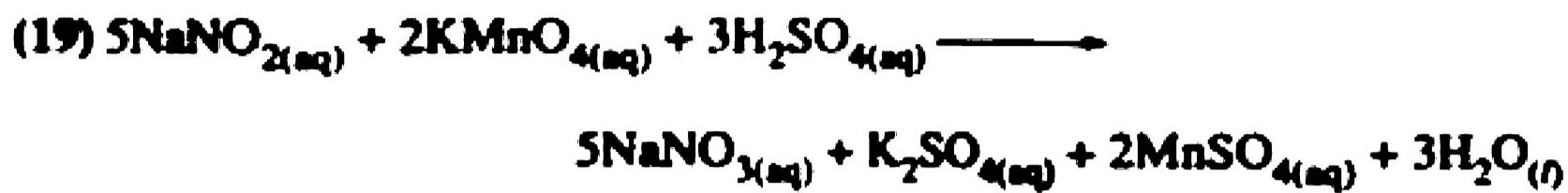
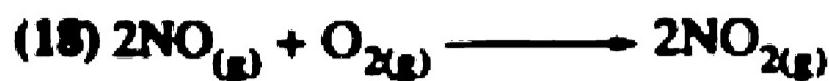
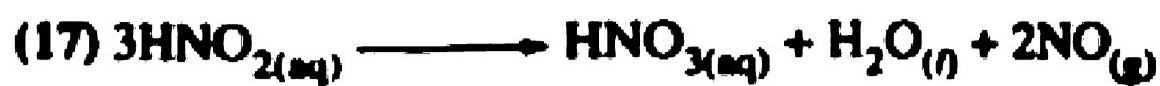
## النحوادلات الواردة بالباب الأول

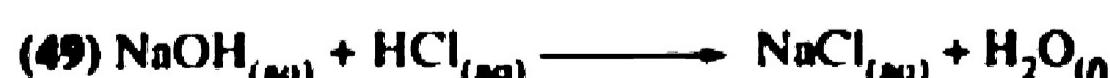
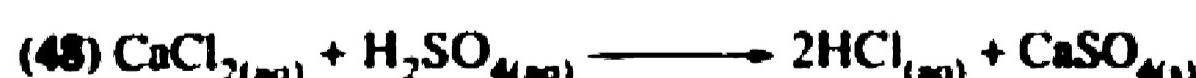
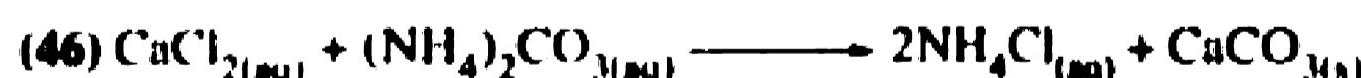
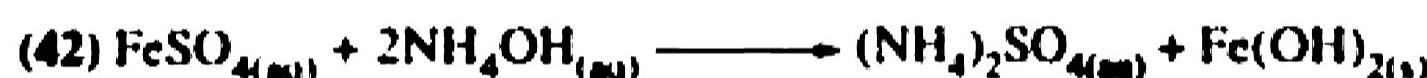
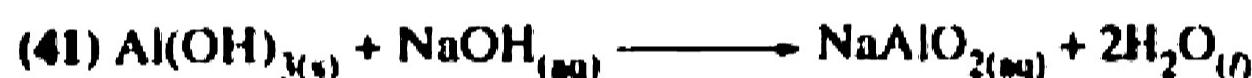
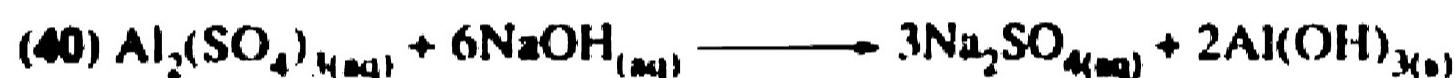
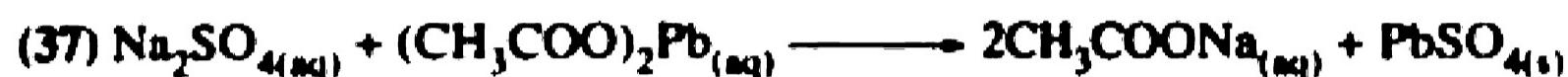
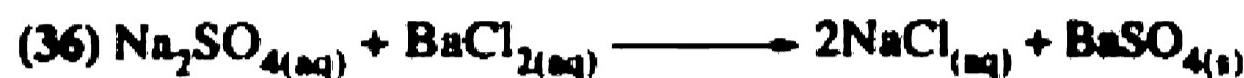
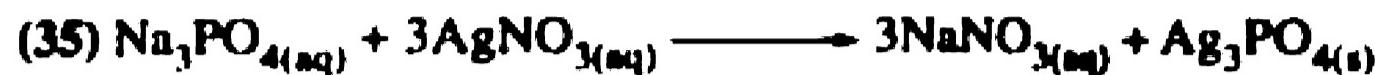
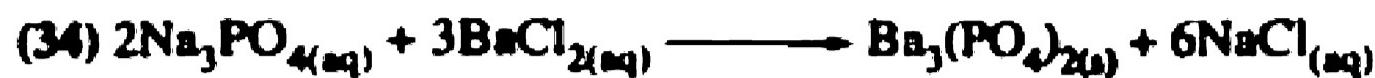
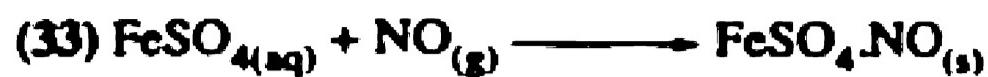
- (1)  $\text{N}_{2(\text{g})} + 3\text{H}_{2(\text{g})} \xrightarrow[\text{Fe}]{500^\circ\text{C}/200 \text{ atm}} 2\text{NH}_{3(\text{g})}$
- (2)  $2\text{SO}_{2(\text{g})} + \text{O}_{2(\text{g})} \xrightarrow[450^\circ\text{C}]{\text{V}_2\text{O}_5} 2\text{SO}_{3(\text{g})}$
- (3)  $\text{SO}_{3(\text{s})} + \text{H}_2\text{O}_{(\text{l})} \longrightarrow \text{H}_2\text{SO}_{4(\text{aq})}$
- (4)  $2\text{H}_2\text{O}_{2(\text{l})} \xrightarrow{\text{MnO}_2} 2\text{H}_2\text{O}_{(\text{l})} + \text{O}_{2(\text{g})}$
- (5)  $\text{FeCO}_{3(\text{s})} \xrightarrow{\Delta} \text{FeO}_{(\text{s})} + \text{CO}_{2(\text{g})}$
- (6)  $2\text{FeO}_{(\text{s})} + \frac{1}{2}\text{O}_{2(\text{g})} \xrightarrow{\Delta} \text{Fe}_2\text{O}_{3(\text{s})}$
- (7)  $2\text{Fe}_2\text{O}_3 \cdot 3\text{H}_2\text{O}_{(\text{s})} \xrightarrow{\Delta} 2\text{Fe}_2\text{O}_{3(\text{s})} + 3\text{H}_2\text{O}_{(\text{v})}$
- (8)  $\text{S}_{(\text{s})} + \text{O}_{2(\text{g})} \xrightarrow{\Delta} \text{SO}_{2(\text{g})}$
- (9)  $4\text{P}_{(\text{s})} + 5\text{O}_{2(\text{g})} \xrightarrow{\Delta} 2\text{P}_2\text{O}_{5(\text{g})}$
- (10)  $\text{C}_{(\text{s})} + \text{O}_{2(\text{g})} \xrightarrow{\Delta} \text{CO}_{2(\text{g})}$
- (11)  $\text{CO}_{2(\text{g})} + \text{C}_{(\text{s})} \xrightarrow{\Delta} 2\text{CO}_{(\text{g})}$
- (12)  $3\text{CO}_{(\text{g})} + \text{Fe}_2\text{O}_{3(\text{s})} \xrightarrow{\Delta} 2\text{Fe}_{(\text{s})} + 3\text{CO}_{2(\text{g})}$
- (13)  $2\text{CH}_{4(\text{g})} + \text{CO}_{2(\text{g})} + \text{H}_2\text{O}_{(\text{v})} \xrightarrow{\Delta} 3\text{CO}_{(\text{g})} + 5\text{H}_{2(\text{g})}$
- (14)  $2\text{Fe}_2\text{O}_{3(\text{s})} + 3\text{CO}_{(\text{g})} + 3\text{H}_{2(\text{g})} \xrightarrow{\Delta} 4\text{Fe}_{(\text{s})} + 3\text{CO}_{2(\text{g})} + 3\text{H}_2\text{O}_{(\text{v})}$
- (15)  $3\text{Fe}_{(\text{s})} + 2\text{O}_{2} \xrightarrow{\Delta} \text{Fe}_3\text{O}_{4(\text{s})}$
- (16)  $3\text{Fe}_{(\text{s})} + 4\text{H}_2\text{O}_{(\text{v})} \xrightarrow{500^\circ\text{C}} \text{Fe}_3\text{O}_{4(\text{s})} + 4\text{H}_{2(\text{g})}$
- (17)  $2\text{Fe}_{(\text{s})} + 3\text{Cl}_{2(\text{g})} \xrightarrow{\Delta} 2\text{FeCl}_{3(\text{s})}$
- (18)  $\text{Fe}_{(\text{s})} + \text{S}_{(\text{s})} \xrightarrow{\Delta} \text{FeS}_{(\text{s})}$
- (19)  $\text{Fe}_{(\text{s})} + \text{H}_2\text{SO}_{4(\text{aq})} \xrightarrow{\text{dil}} \text{FeSO}_{4(\text{aq})} + \text{H}_{2(\text{g})}$
- (20)  $\text{Fe}_{(\text{s})} + 2\text{HCl}_{(\text{aq})} \xrightarrow{\text{dil}} \text{FeCl}_{2(\text{aq})} + \text{H}_{2(\text{g})}$



## المعادلات الواردة بالباب الثاني







## المعادلات الواردة بالباب الخامس

